

Quarterly Report – Public Page

Report Date: July 31, 2008

Contract Number: DTPH56-08-T-000003

Project Title: Development of Tools to Estimate Actual Corrosion Growth Rates (Internal and External) of Gas Pipelines

Prepared for: U.S.DOT Pipeline Hazardous Materials Safety Administration

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Progress to Date:

The principal investigator of this project (Frank Song) developed an internal CO₂ corrosion model for gas pipelines during his Ph.D. work. This model was later modified and verified further during a DOT contract completed in 2006 (Contract: DTRS56-04-T-0002). This model has, however, not integrated comprehensively the effect of H₂S on the corrosion rate.

A literature survey was conducted during this quarter focusing on this effect. Limited improvement of the existing model has been made.